



REPLACEMENT FIGURE 4A

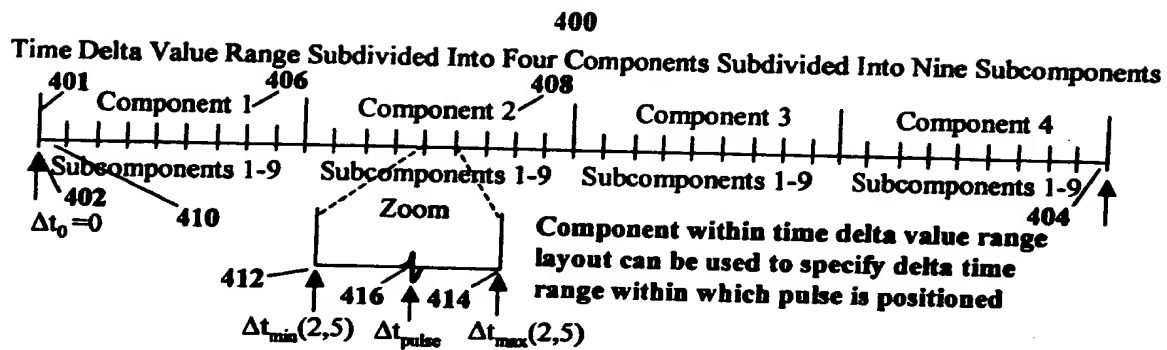


FIGURE 4a.

REPLACEMENT FIGURE 6A

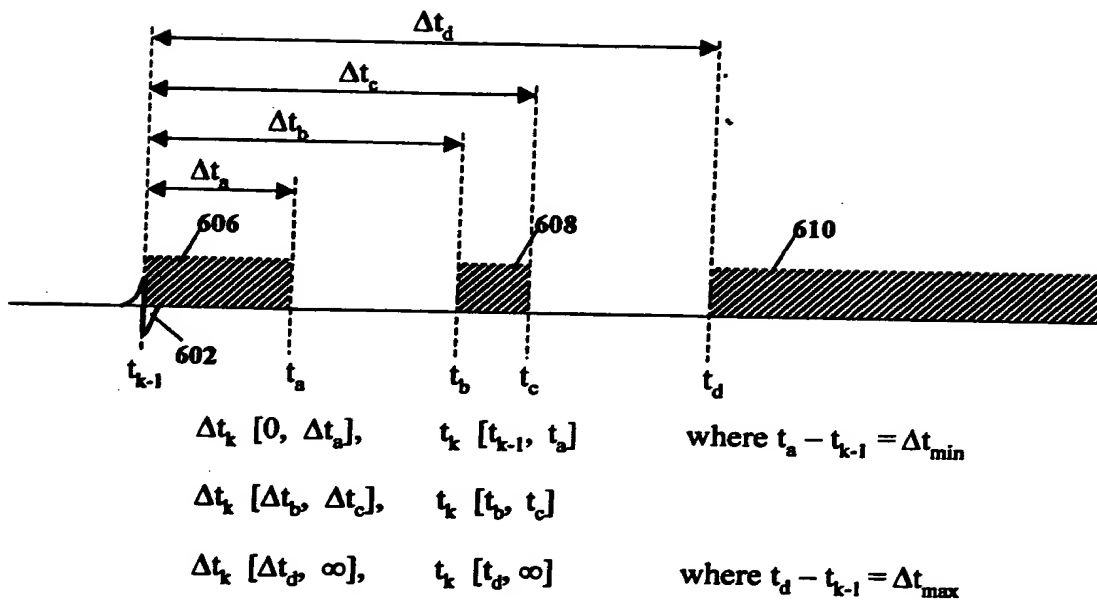


FIGURE 6a. Non-allowable Regions Relative to Preceding Pulse Position

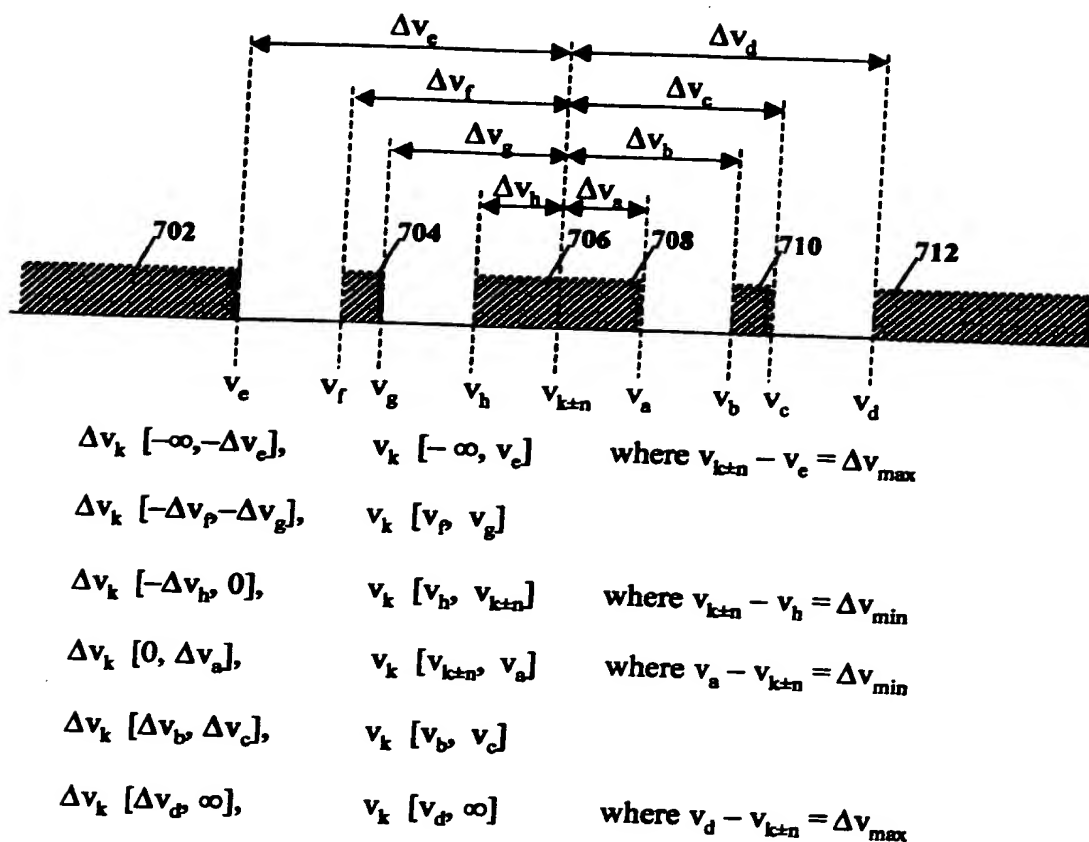


FIGURE 7. Non-allowable Regions Relative to Characteristic Value of Any Other Pulse

REPLACEMENT FIGURE 7

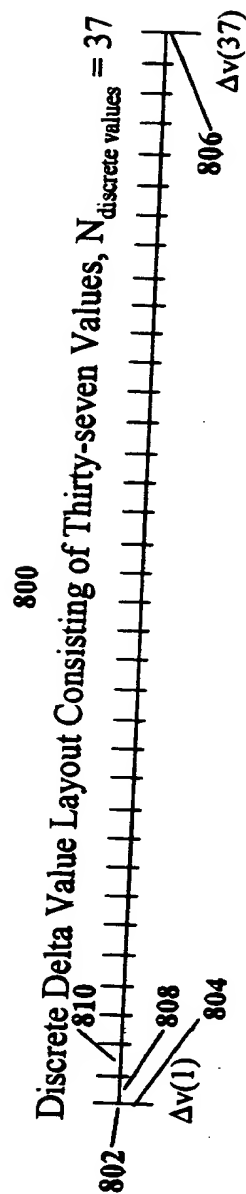


FIGURE 8a.

REPLACEMENT FIGURE 8A

REPLACEMENT FIGURE 9A

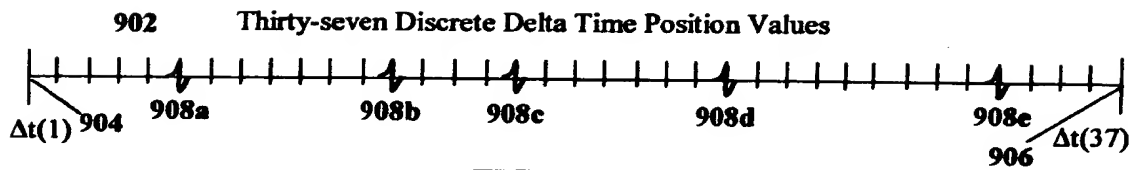


FIGURE 9a.

REPLACEMENT FIGURE 9B

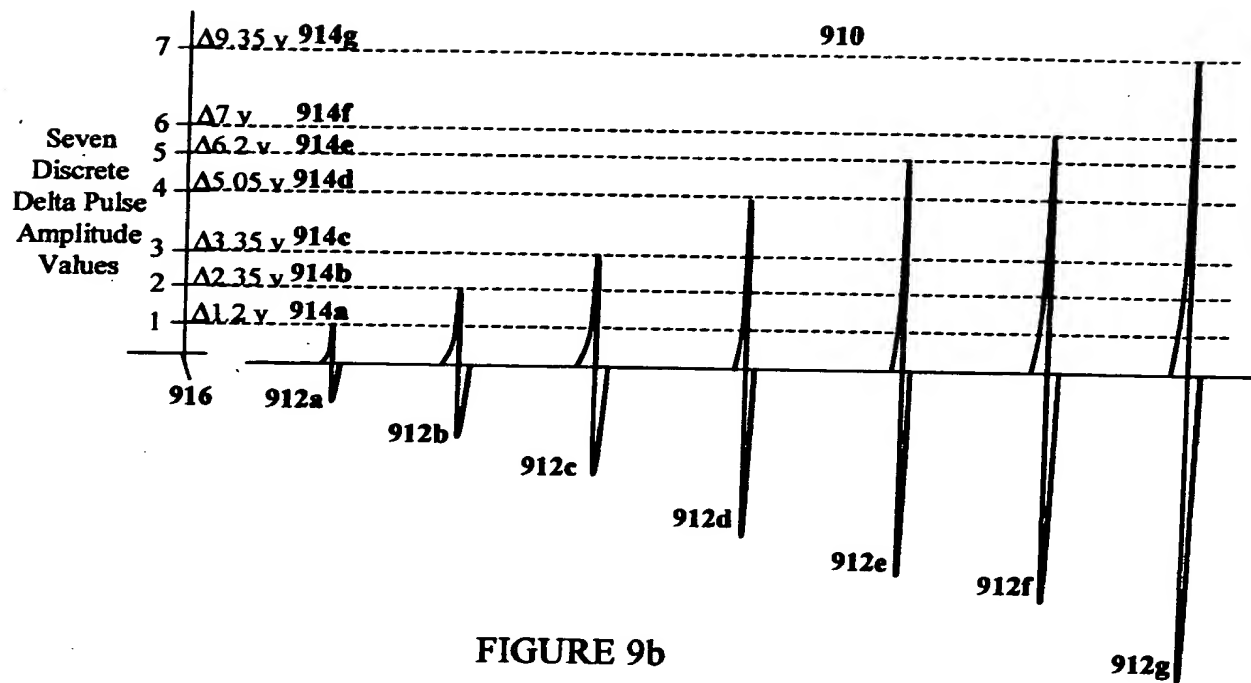
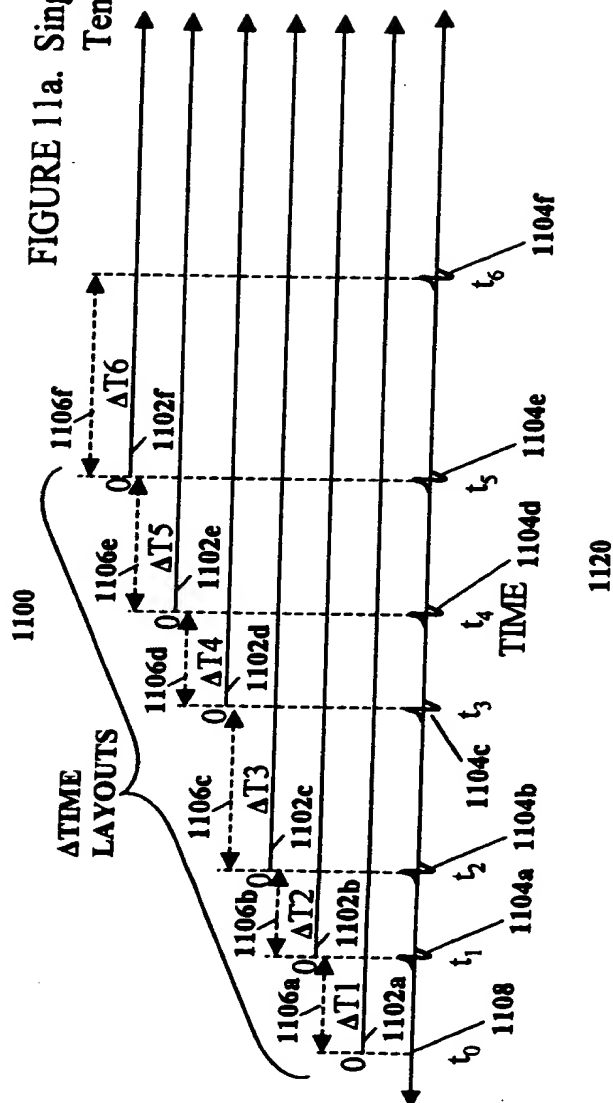


FIGURE 9b

REPLACEMENT FIGURE 11A

**FIGURE 11a. Single Code Element Per Reference
Temporal Delta Coding**



REPLACEMENT FIGURE 11B

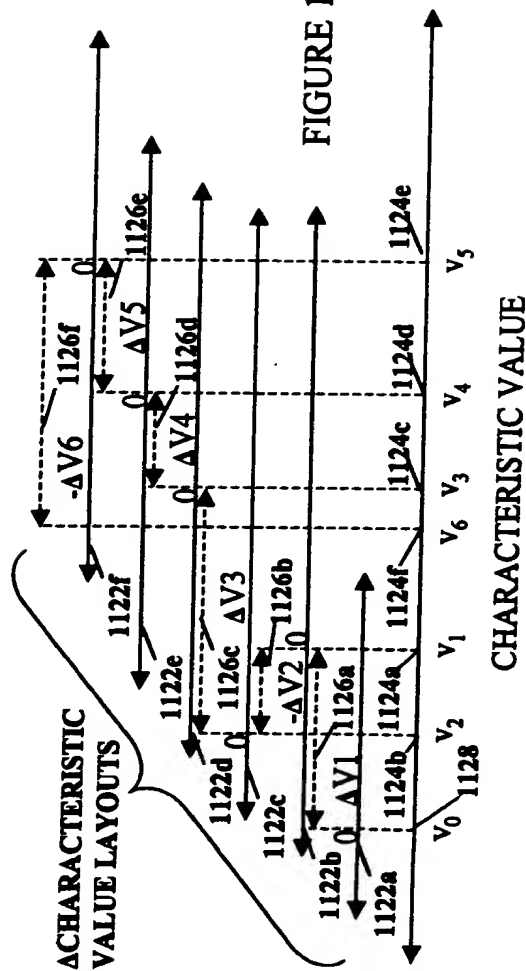


FIGURE 11b. Single Code Element Per Reference
Non-temporal Delta Coding

REPLACEMENT FIGURE 12A

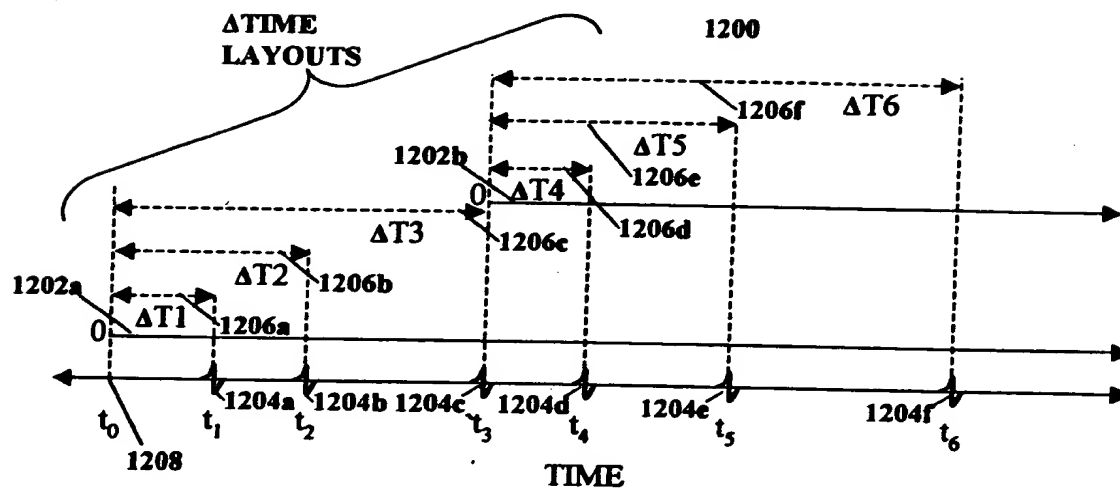


FIGURE 12a. Multiple (3) Code Elements Per Reference Temporal Delta Coding

REPLACEMENT FIGURE 13A

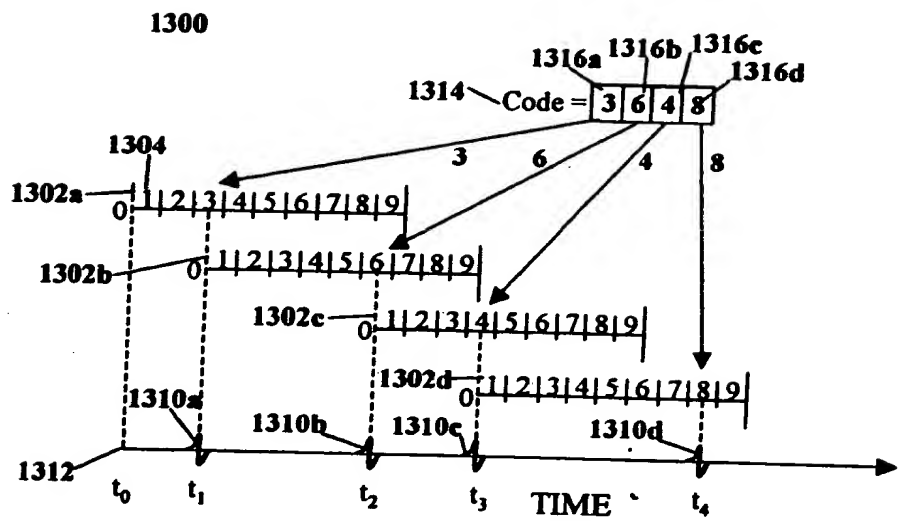


FIGURE 13a

REPLACEMENT FIGURE 13B

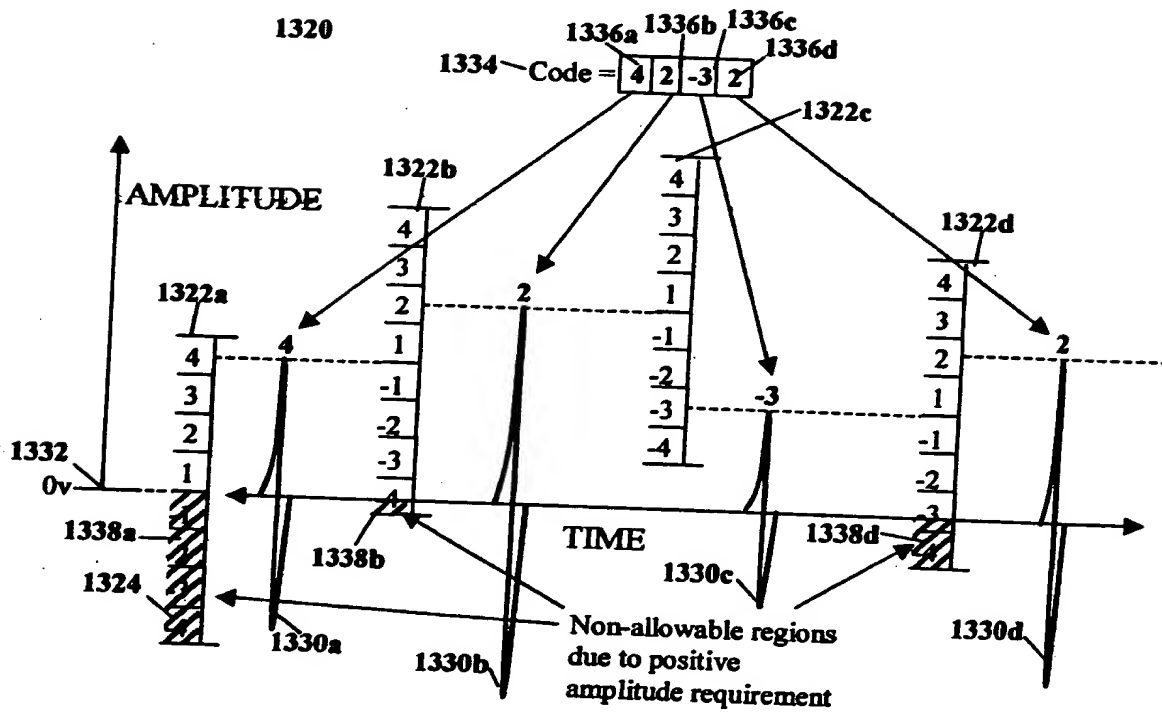


FIGURE 13b

REPLACEMENT FIGURE 14A

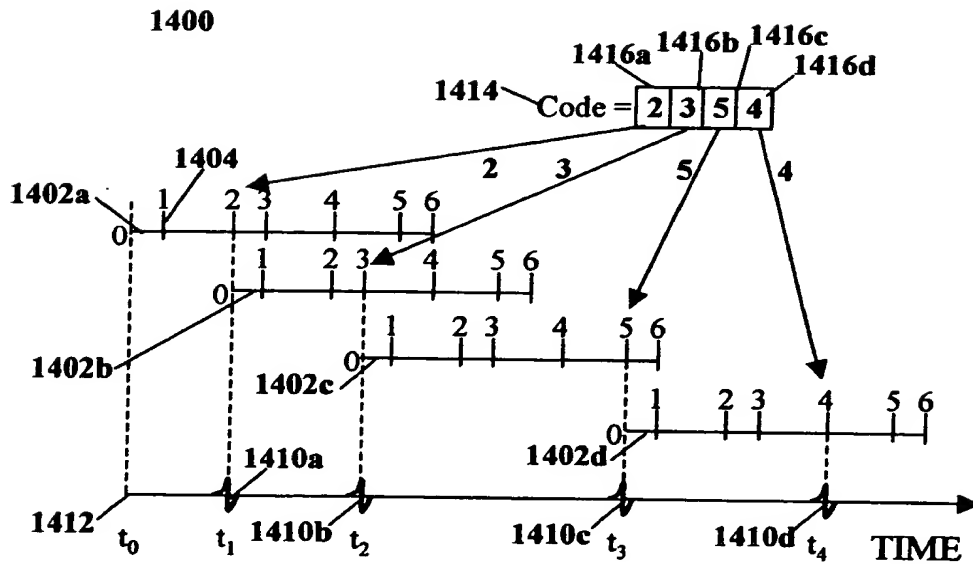


FIGURE 14a

REPLACEMENT FIGURE 14C

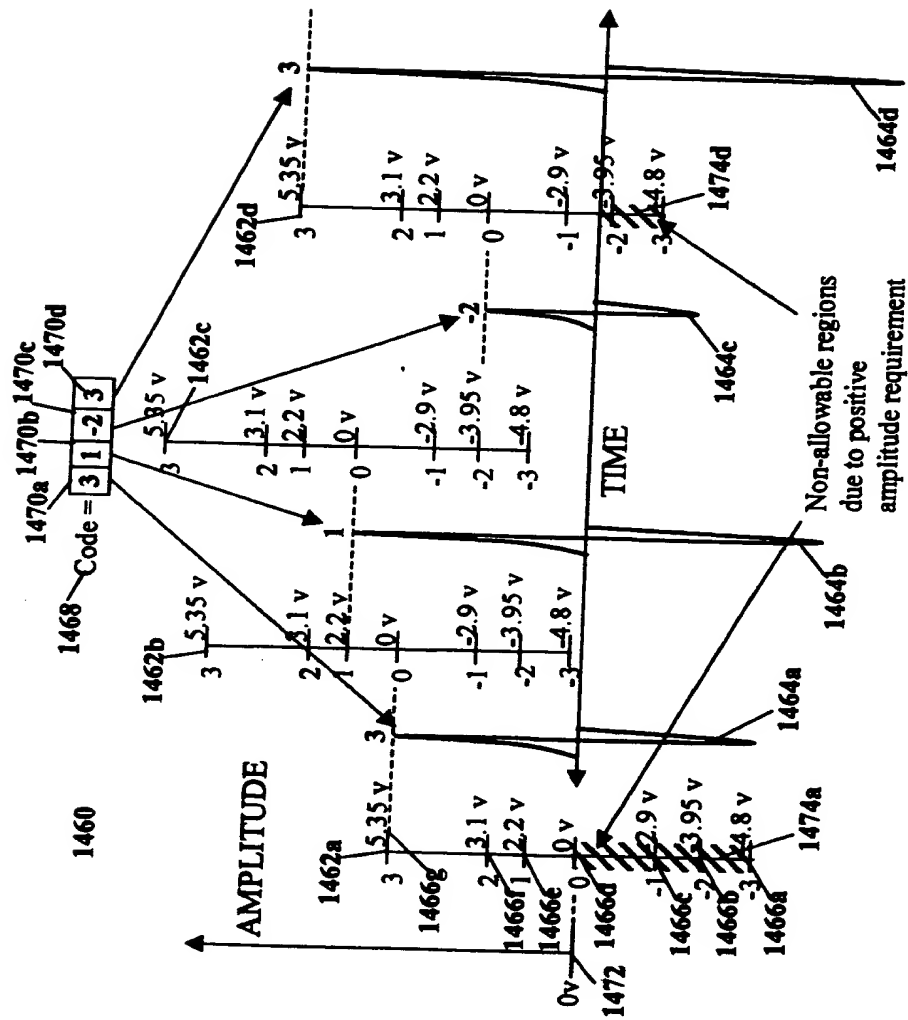


FIGURE 14c

Figure 1 is a graph showing the amplitude of a signal over time. The vertical axis is labeled "AMPLITUDE" and the horizontal axis is labeled "TIME". The signal is a square wave with levels 4, 3, 2, 1, -1, -2, -3, and -4. The signal is divided into segments labeled 1542a, 1542b, 1542c, 1542d, 1544a, 1544b, 1544c, 1544d, 1546, 1552a, 1552b, 1552c, 1552d, 1556a, 1556b, 1558a, 1558b, 1558c, 1558d, 1550, and 1548. A code is shown for segment 1546: Code = 4.51 2.65 -3.26 3.68. The signal is labeled "Non-allowable regions due to positive amplitude requirement".

Appl. No.: 09/638,151
Inventors: Marcus H. Pendergrass et al.
Reply to Notice dated January 13, 2006
Replacement Drawing Sheet 14, Fig. 15C

REPLACEMENT FIGURE 18

Exponential Probability Density Functions

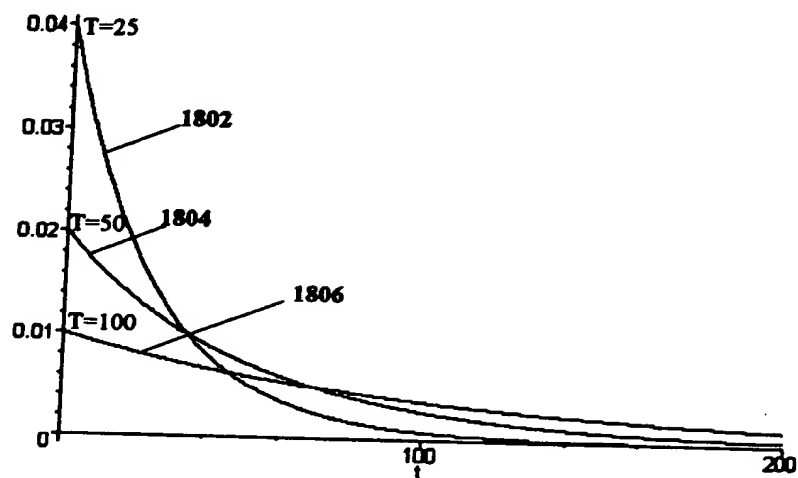


FIGURE 18

REPLACEMENT FIGURE 19

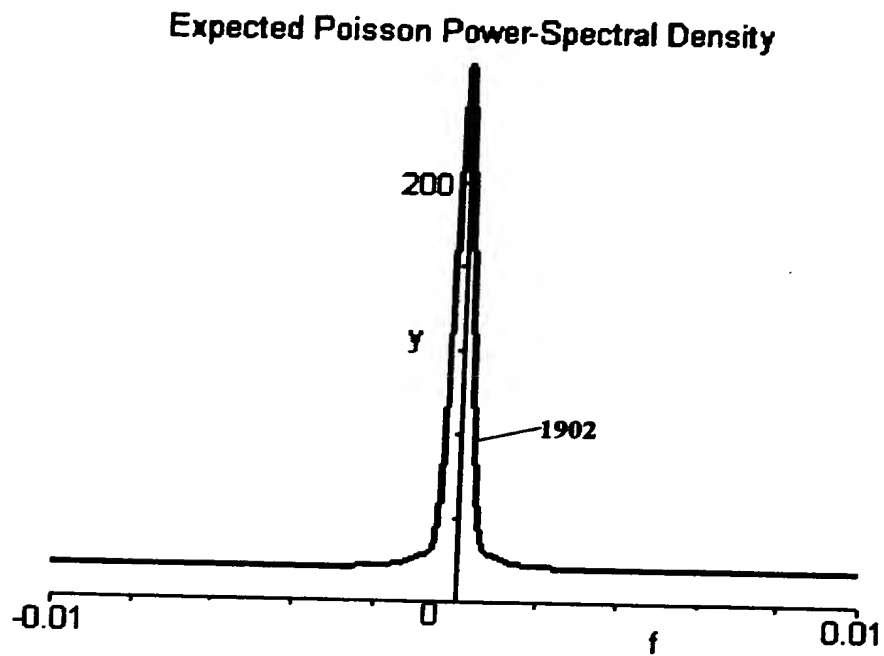


FIGURE 19

REPLACEMENT FIGURE 20A

Power Spectral Density for a Poisson Code (1 of 3)

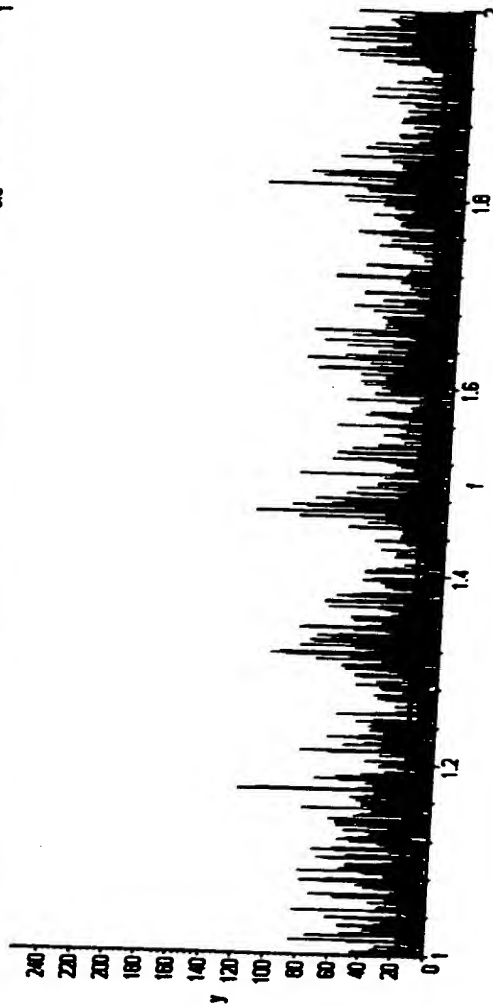
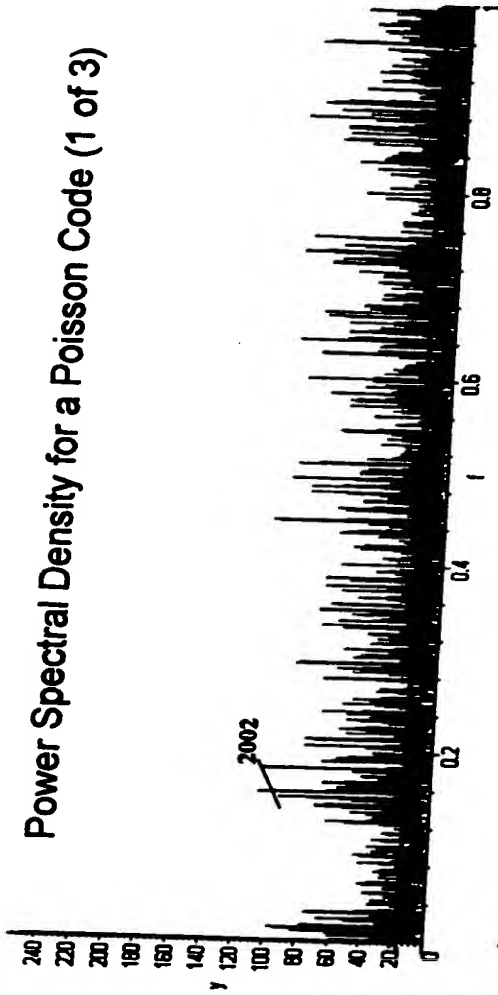


FIGURE 20a

REPLACEMENT FIGURE 20B

Power Spectral Density for a Poisson Code (2 of 3)

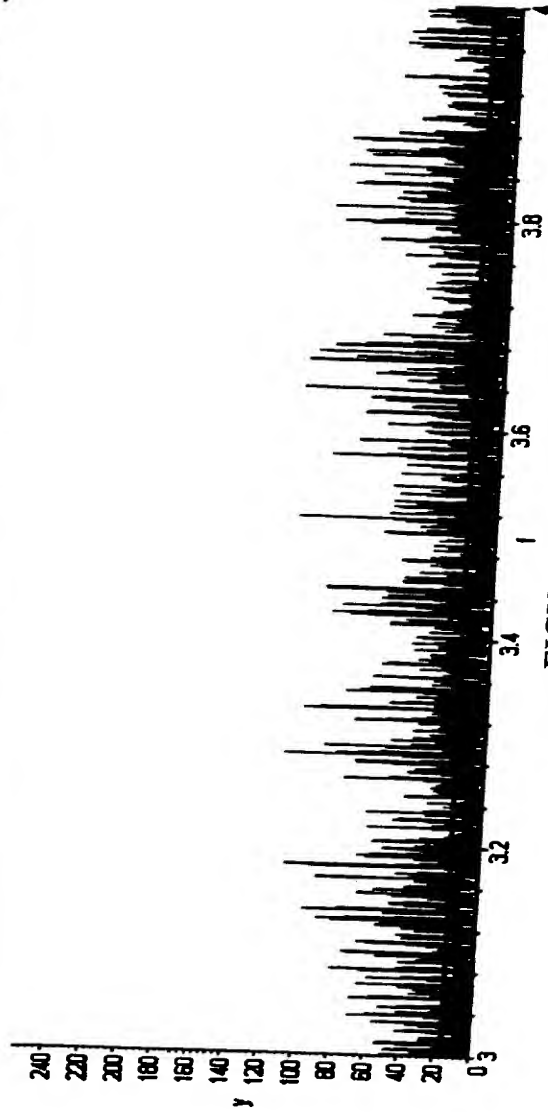
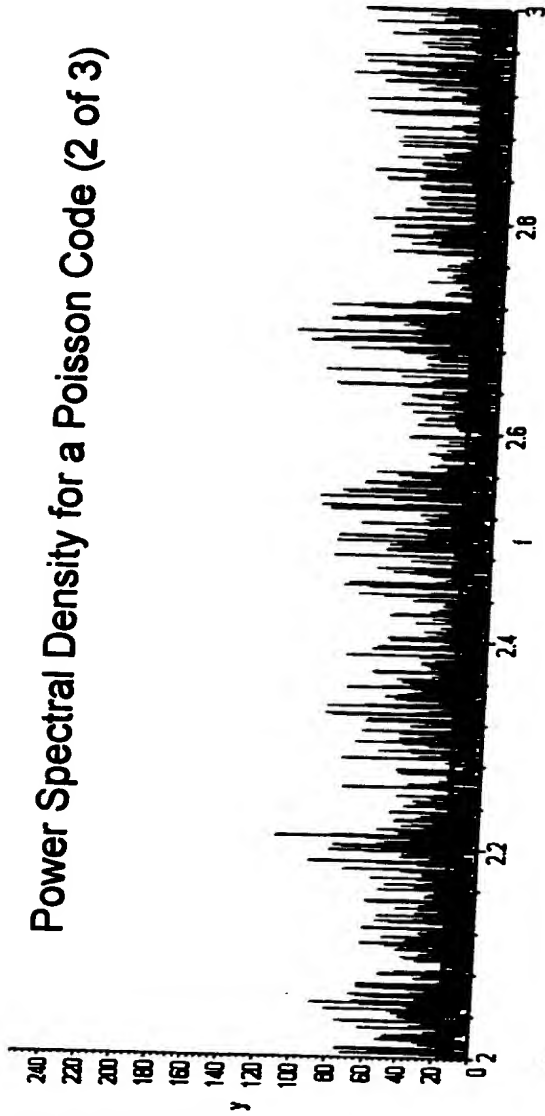


FIGURE 20b

REPLACEMENT FIGURE 20C

Power Spectral Density for a Poisson Code (3 of 3)

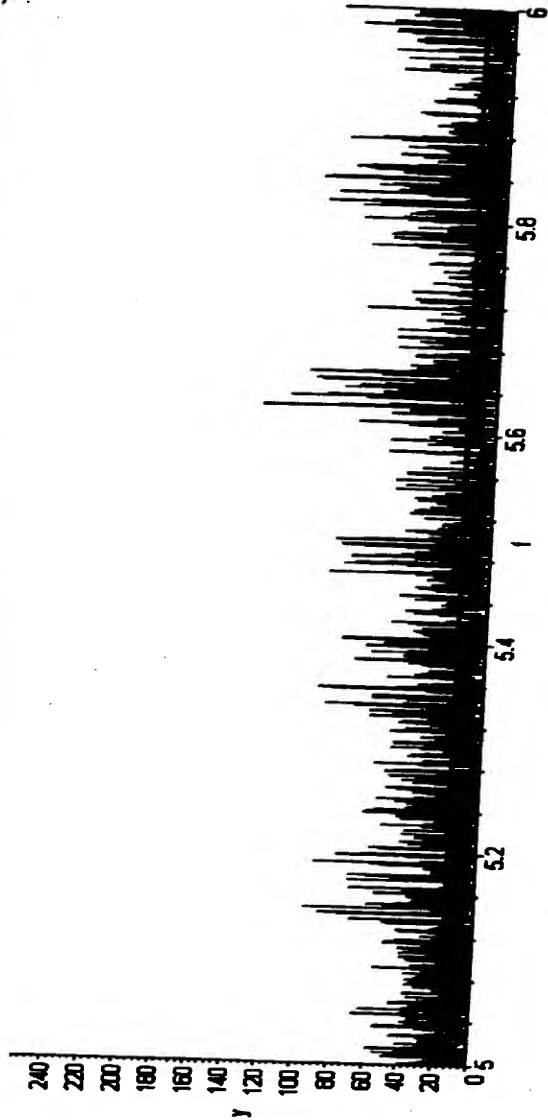


FIGURE 20c

REPLACEMENT FIGURE 21

Modified Exponential Probability Density Functions

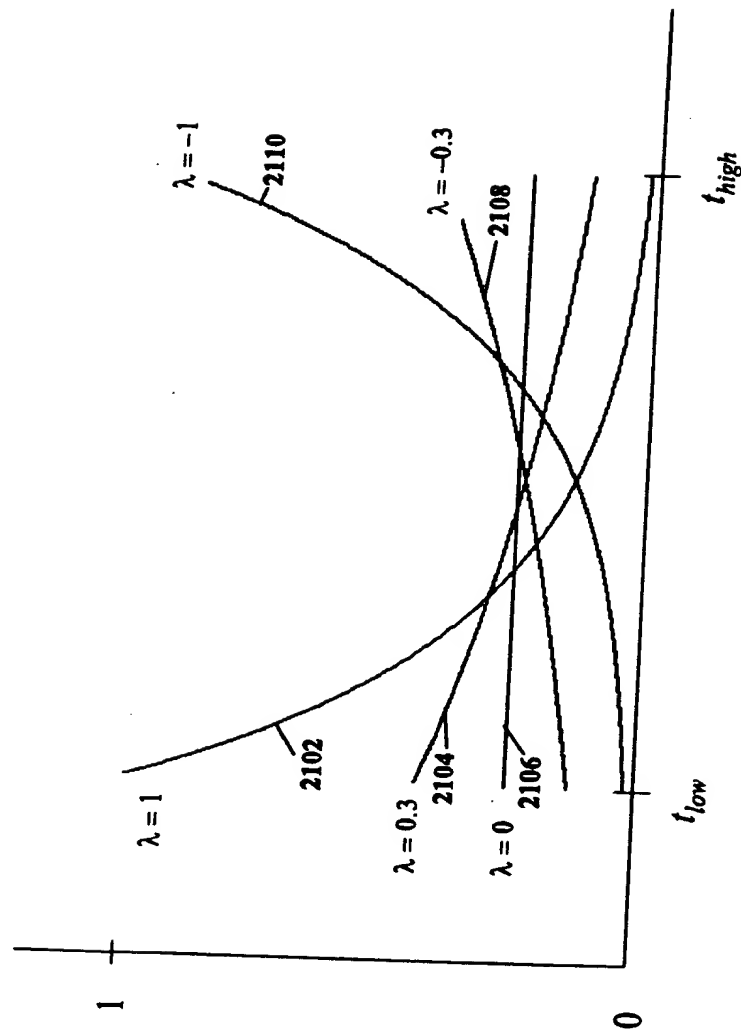


FIGURE 21

REPLACEMENT FIGURE 22

Expected Inter-Pulse Time T as a Function of λ

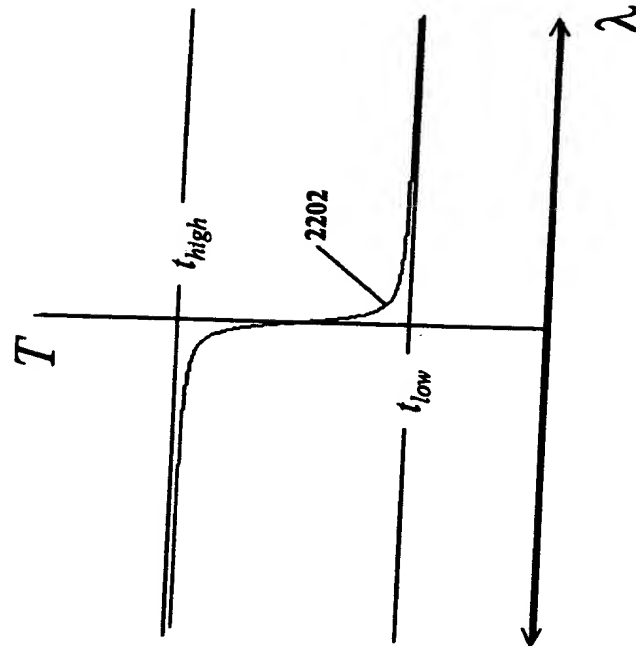


FIGURE 22

Power Spectral Density for a Uniform Delta Code (1 of 3)

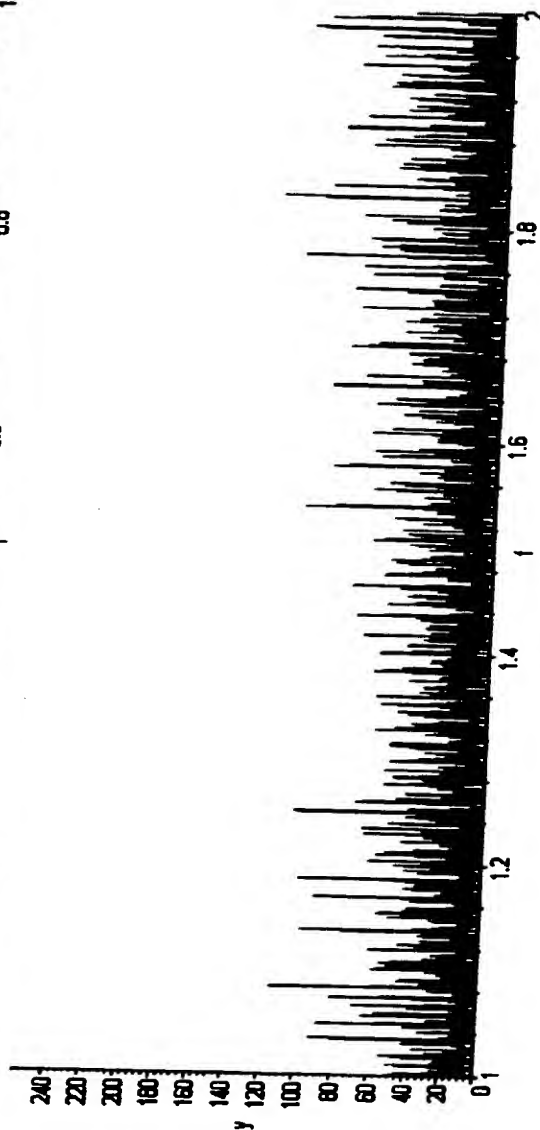


FIGURE 23a

REPLACEMENT FIGURE 23A

Power Spectral Density for a Uniform Delta Code (2 of 3)

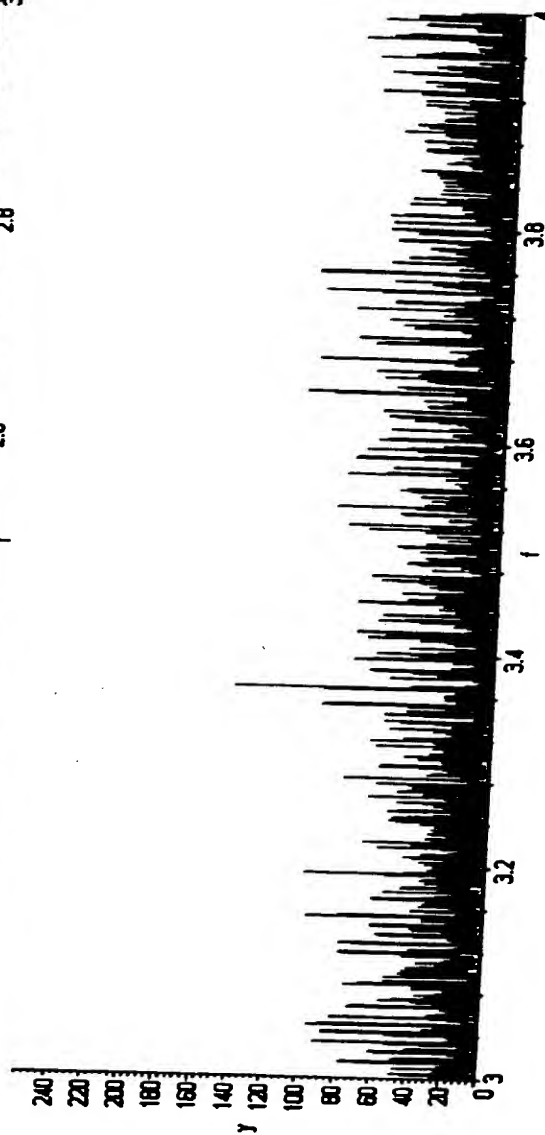
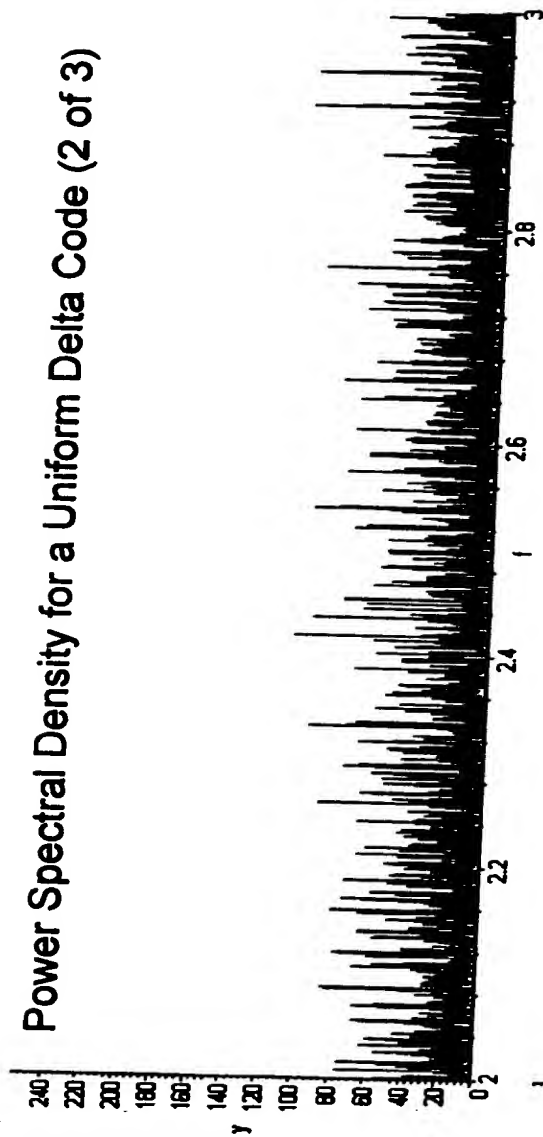


FIGURE 23b

REPLACEMENT FIGURE 23B

Power Spectral Density for a Uniform Delta Code (3 of 3)

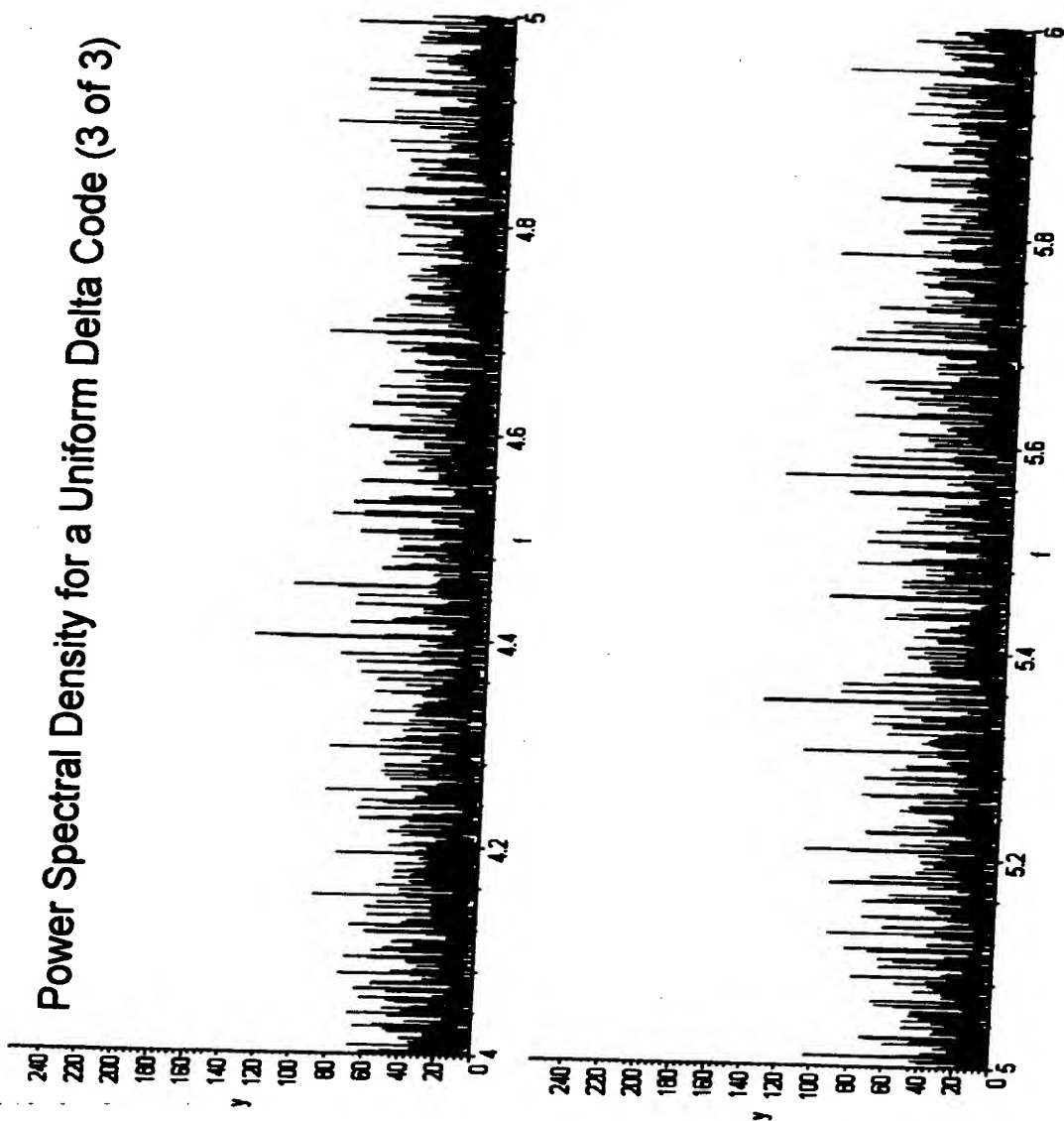


FIGURE 23c

REPLACEMENT FIGURE 23C

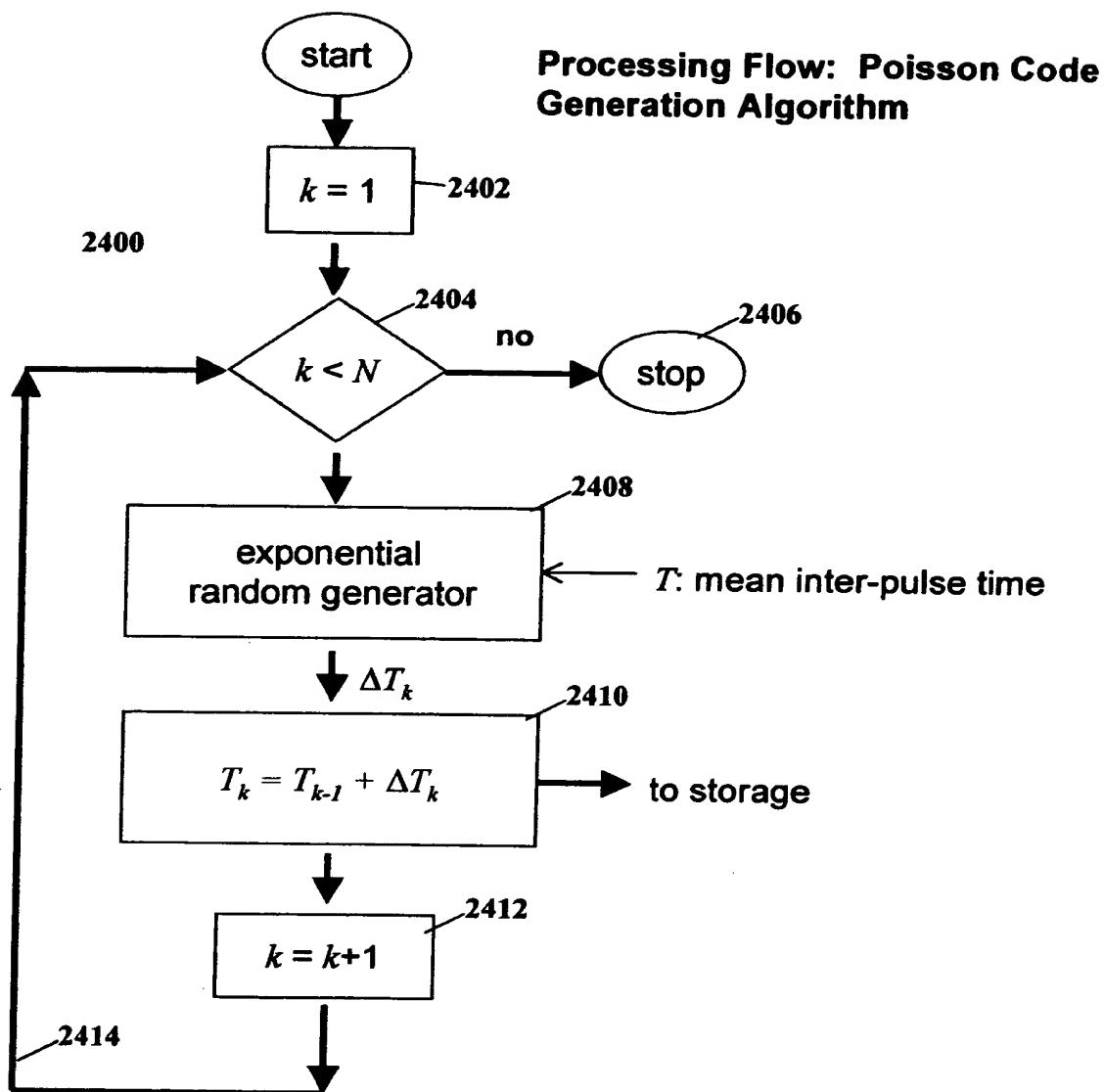


FIGURE 24

REPLACEMENT FIGURE 24

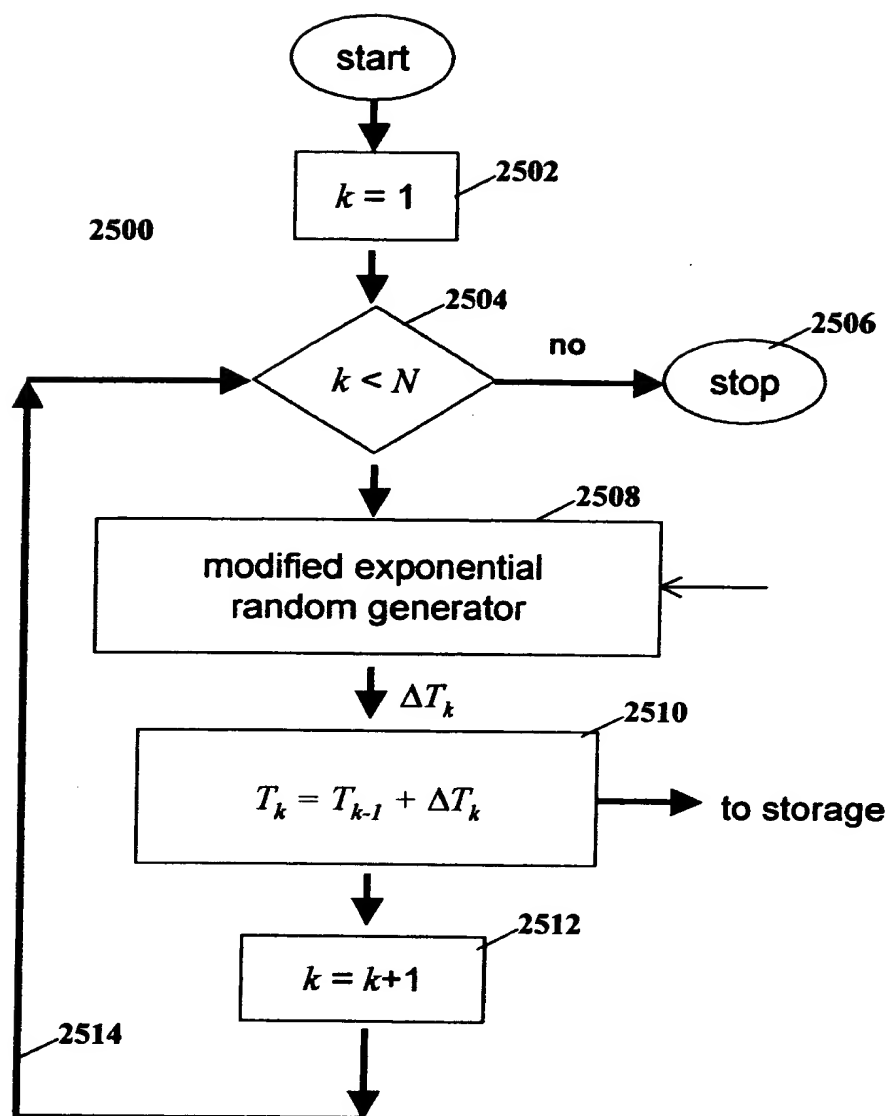


FIGURE 25

REPLACEMENT FIGURE 25

REPLACEMENT FIGURE 26A

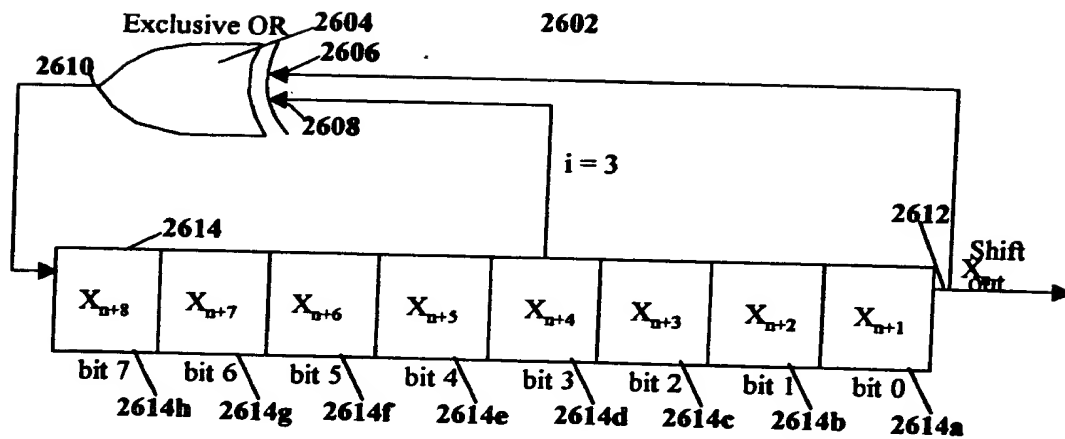


FIGURE 26a. Linear Feedback Shift Register

REPLACEMENT FIGURE 26B

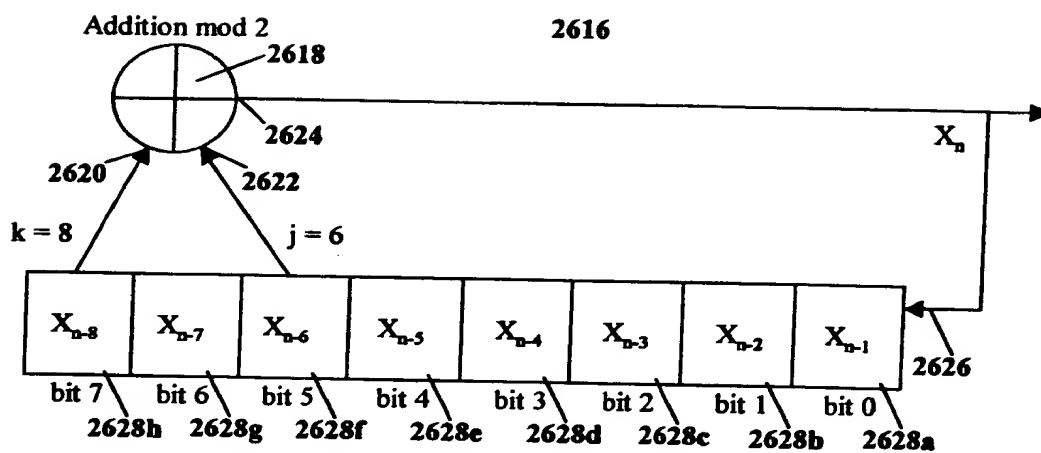


FIGURE 26b. Lagged-Fibonacci Shift Register Generator

REPLACEMENT FIGURE 27

Flow Diagram for Sequential Generation of Delta Codes

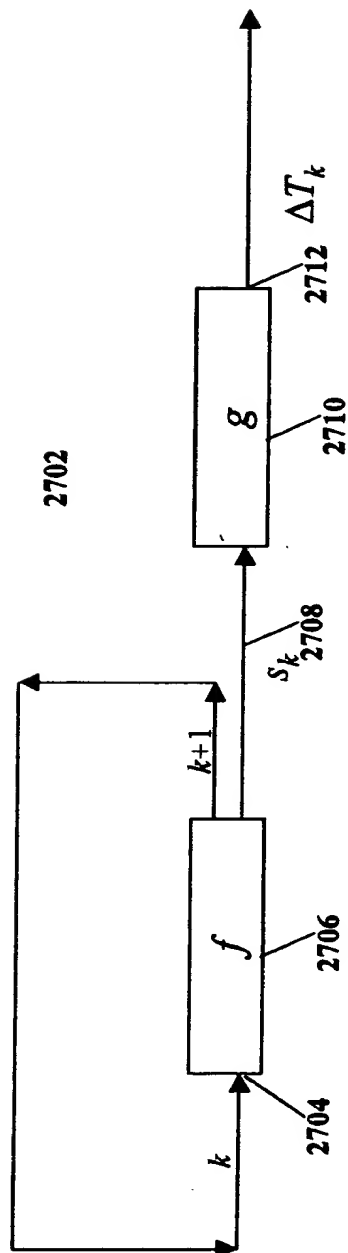


FIGURE 27

Processing Flow: Rational Congruential Sequential Delta Code Generation Algorithm

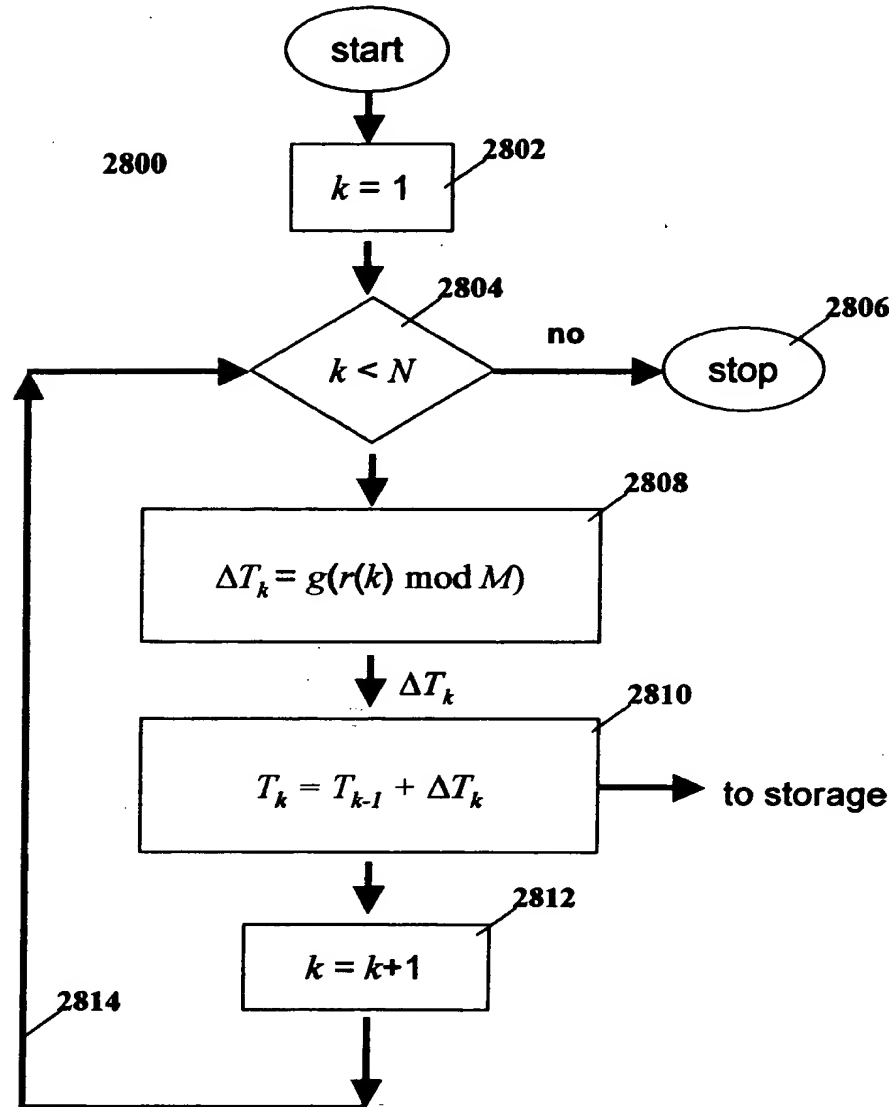


FIGURE 28

REPLACEMENT FIGURE 28

Flow Diagram for Iterated Generation of Delta Codes

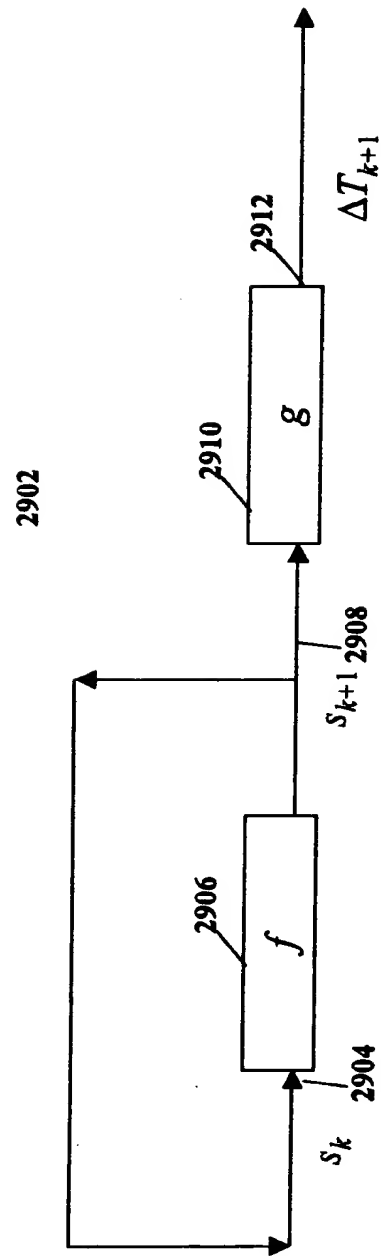


FIGURE 29

REPLACEMENT FIGURE 29

Processing Flow: Rational Congruential Iterative Delta Code Generation Algorithm

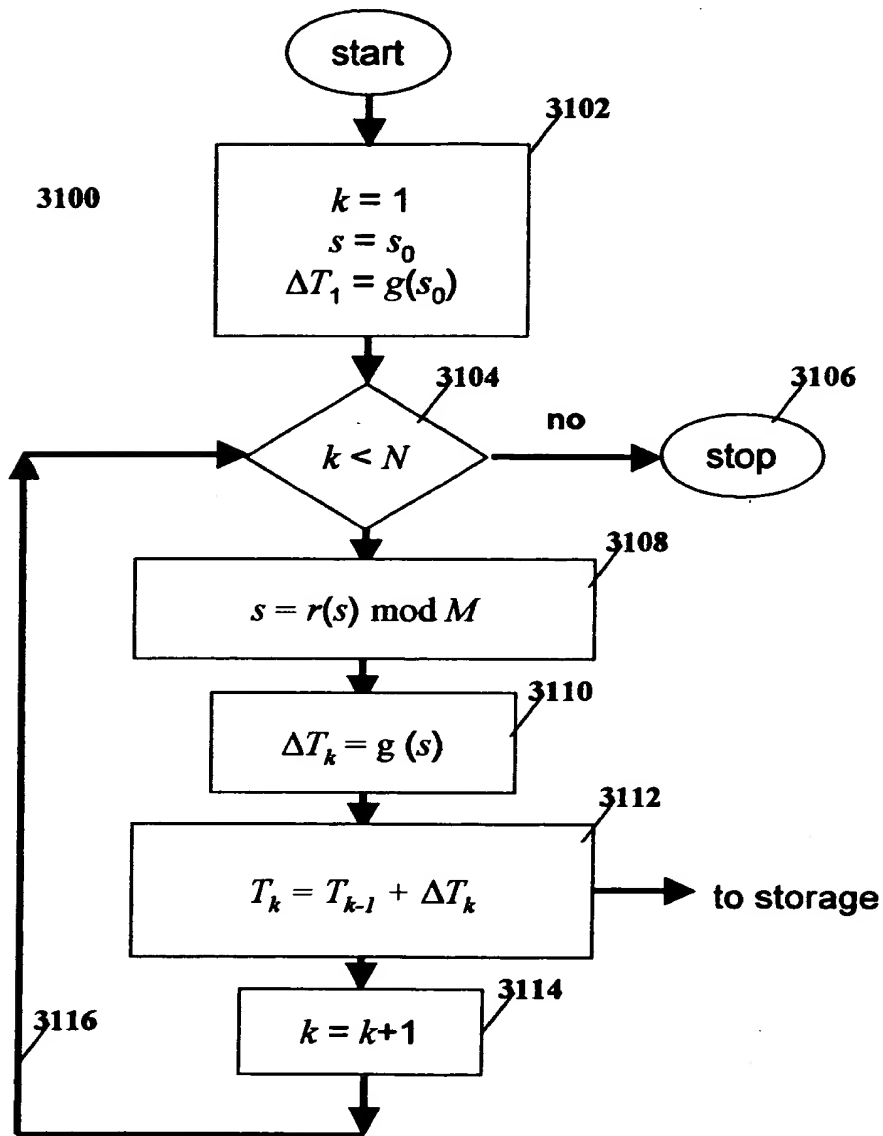


FIGURE 31

REPLACEMENT FIGURE 31

Processing Flow: Piecewise Linear Iterative Delta Code Generation Algorithm

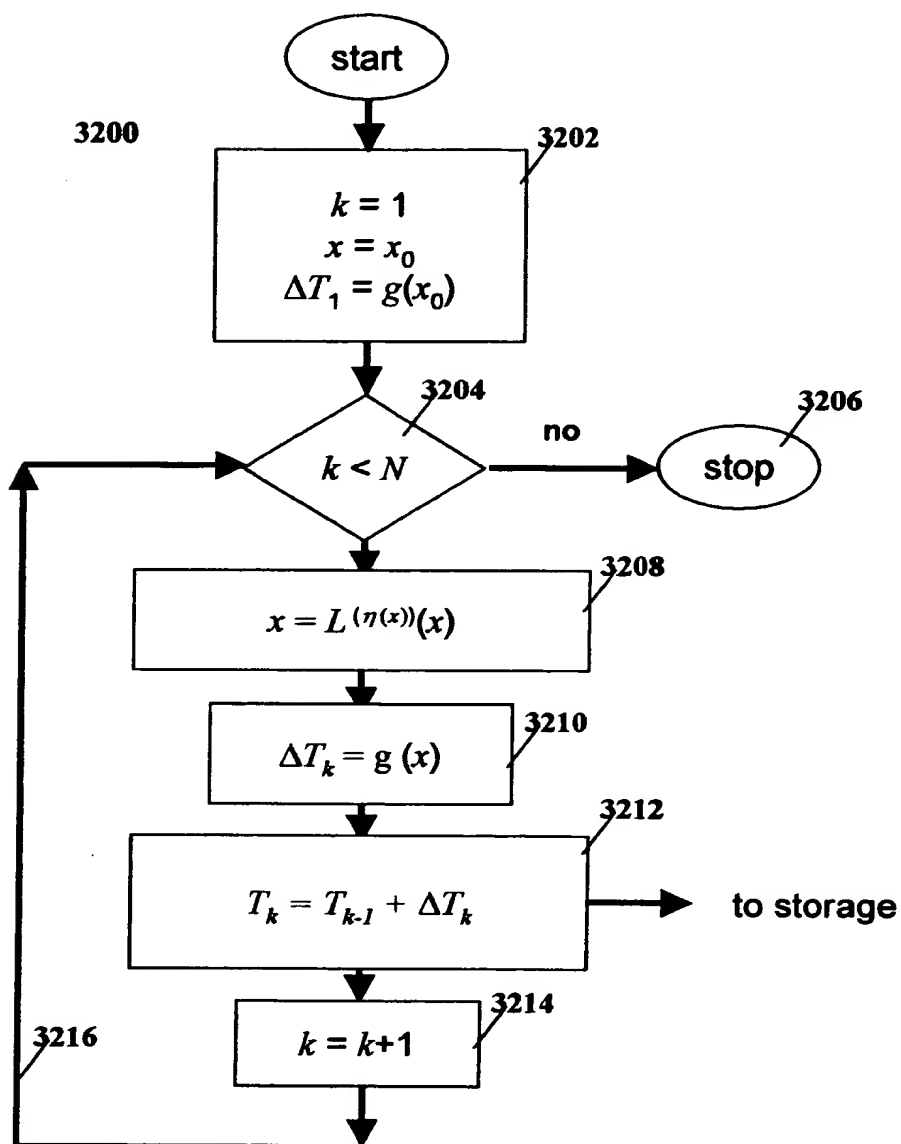


FIGURE 32

REPLACEMENT FIGURE 32

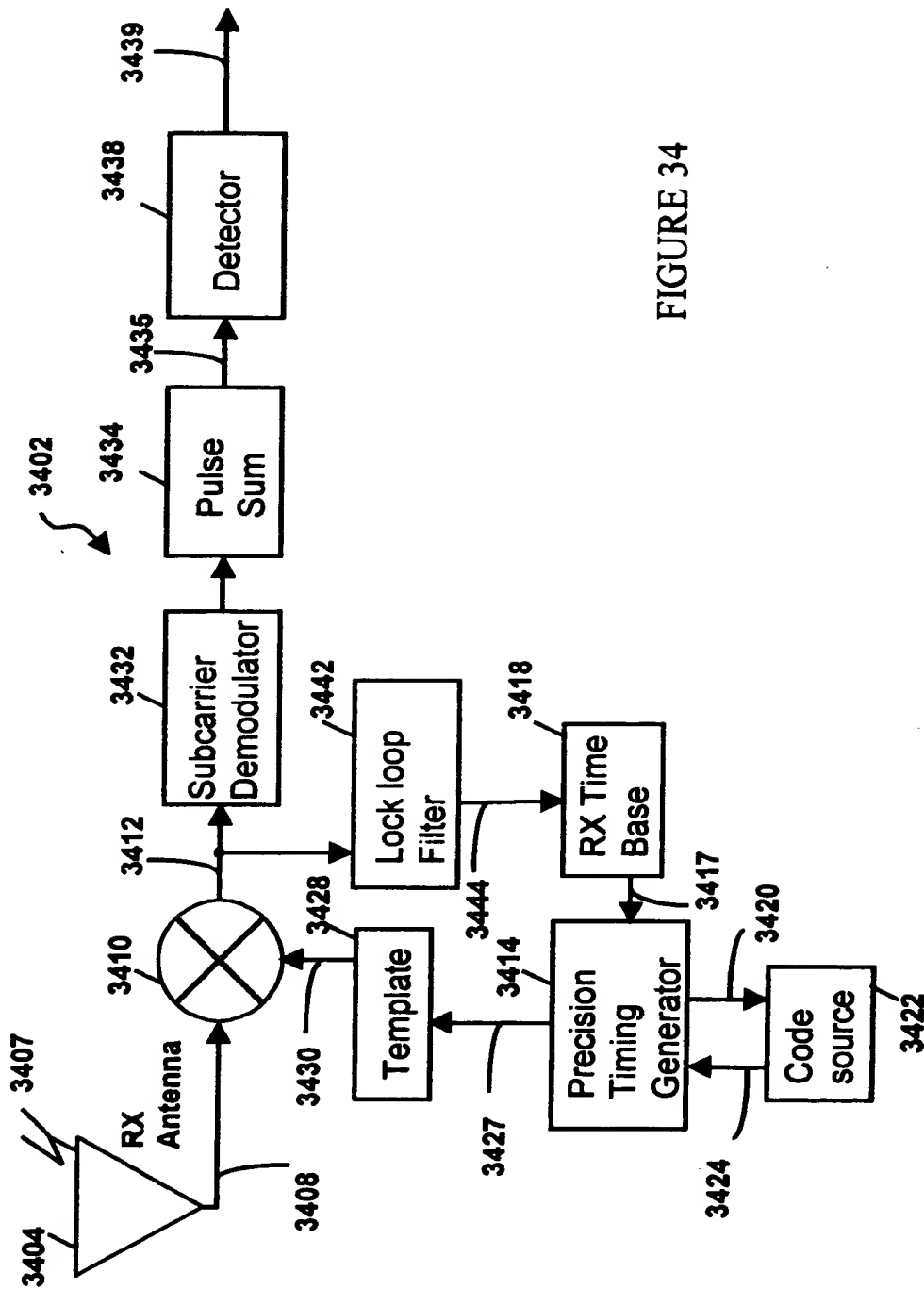


FIGURE 34

REPLACEMENT FIGURE 34